```
Qy     301 CCGGGAGTCGACCCCTTCTACACCTATCCCGTGGCCATCCGCTGTGACTGCGGAGCCTGC 360
           || |||||||| || |||||||||| ||  ||||   ||| |||||||| || || ||
Db     416 CCTGGAGTCGATCCTTTCTACACCTACCCTATGGCTTGCCGATGTGACTGTGGGGCGTGT 475

Qy     361 TCCACTGCCACCACGGAGT 379
           ||||||||||||||| ||||
Db     476 TCCACTGCCACCACTGAGT 494
```

```
RESULT 2
AQ495547
LOCUS       AQ495547               405 bp    DNA     linear   GSS 28-APR-1999
DEFINITION  HS_5211_B1_H08_SP6E RPCI-11 Human Male BAC Library Homo sapiens
            genomic clone Plate=787 Col=15 Row=P, DNA sequence.
ACCESSION   AQ495547
VERSION     AQ495547.1  GI:4695670
KEYWORDS    GSS.
SOURCE      human.
  ORGANISM  Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1  (bases 1 to 405)
  AUTHORS   Mahairas,G.G., Wallace,J.C., Smith,K., Swartzell,S., Holzman,T.,
            Keller,A., Shaker,R., Furlong,J., Young,J., Zhao,S., Adams,M.D. and
            Hood,L.
  TITLE     Sequence-tagged connectors: A sequence approach to mapping and
            scanning the human genome
  JOURNAL   Proc. Natl. Acad. Sci. U. S. A. 96 (17), 9739-9744 (1999)
  MEDLINE   99380589
COMMENT     Contact: Mahairas GG, Wallace JC, Hood L
            High Throughput Sequencing Center
            University of Washington
            401 Queen Anne Avenue North, Seattle, WA 98109, USA
            Tel: (206) 616-3618
            Fax: (206) 616-3887
            Email: jwallace@u.washington.edu
            Clones are derived from the human BAC library RPCI-11. For BAC
            library availability, please contact Pieter de Jong
            (pieter@dejong.med.buffalo.edu). Clones may be purchased from
            BACPAC Resources (http://bacpac.med.buffalo.edu/ordering_bac.htm)
            or from Resear h Genetics (info@resgen.com). BAC end Web Server:
            http://www.htsc.washington.edu
            Plate: 787  row: P  column: 15
            Seq primer: SP6
            Class: BAC ends
            High quality sequence stop: 405.
FEATURES             Location/Qualifiers
     source          1. .405
                     /organism="Homo sapiens"
                     /db_xref="taxon:9606"
                     /clone="Plate=787 Col=15 Row=P"
                     /clone_lib="RPCI-11 Human Male BAC Library"
                     /sex="male"
                     /note="Vector: pBACe3.6; Site_1: EcoRI; Site_2: EcoRI;
                     Male blood DNA was isolated from one randomly chosen donor
                     and partially digested with a combination of EcoRI and
                     EcoRI Methylase. Size selected DNA was cloned into the
                     pBACe3.6 vector at EcoRI sites"
BASE COUNT       97 a    126 c     89 g     93 t
ORIGIN
```

```
  Query Match           48.2%;  Score 188;  DB 12;  Length 405;
  Best Local Similarity  100.0%;  Pred. No. 1.2e-37;
  Matches  188;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy     203 AGAAACCCATTCTGGAACCCCCCTATATTGAAGCCCATCATCGAGTCTGTACCTACAACG 262
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      22 AGAAACCCATTCTGGAACCCCCCTATATTGAAGCCCATCATCGAGTCTGTACCTACAACG 81

Qy     263 AGACCAAACAGGTGACTGTCAAGCTGCCCAACTGTGCCCCGGGAGTCGACCCCTTCTACA 322
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      82 AGACCAAACAGGTGACTGTCAAGCTGCCCAACTGTGCCCCGGGAGTCGACCCCTTCTACA 141
```



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Qy     323 CCTATCCCGTGGCCATCCGCTGTGACTGCGGAGCCTGCTCCACTGCCACCACGGAGTGTG 382
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     142 CCTATCCCGTGGCCATCCGCTGTGACTGCGGAGCCTGCTCCACTGCCACCACGGAGTGTG 201

Qy     383 AGACCATC 390
           ||||||||
Db     202 AGACCATC 209
```

```
RESULT 3
BM262079/c
LOCUS       BM262079               560 bp    mRNA    linear   EST 18-DEC-2001
DEFINITION  dag40d11.x3 Blackshear/Soares normalized Xenopus egg library
            Xenopus laevis cDNA clone IMAGE:4783917 3' similar to SW:GTHB_CYPCA
            P01235 GONADOTROPIN BETA CHAIN PRECURSOR. [1] ;, mRNA sequence.
ACCESSION   BM262079
VERSION     BM262079.1  GI:17925119
KEYWORDS    EST.
SOURCE      African clawed frog.
  ORGANISM  Xenopus laevis
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidea; Pipidae;
            Xenopodinae; Xenopus.
REFERENCE   1  (bases 1 to 560)
  AUTHORS   Clifton,S., Johnson,S.L., Blumberg,B., Song,J., Hillier,L., Pape,D.
            , Martin,J., Wylie,T., Underwood,K., Theising,B., Bowers,Y., Person
            ,B., Gibbons,M., Harvey,N., Ritter,E., Jackson,Y., McCann,R.,
            Waterston,R. and Wilson,R.
  TITLE     WashU Xenopus EST project, 1999
  JOURNAL   Unpublished (1999)
COMMENT     Contact: Sandy Clifton, Ph.D.
            WashU Xenopus EST project, 1999
            Washington University School of Medicine
            4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
            Tel: 314 286 1800
            Fax: 314 286 1810
            Email: est@watson.wustl.edu
            Library constructed by Bento Soares and M. Fatima Bonaldo
            (University of Iowa). DNA Sequencing by: Washington University
            Genome Sequencing Center
             Clone distribution: Xenopus clones from this library are available
            through the I.M.A.G.E. Consortium/LLNL at: info@image.llnl.gov
            Seq primer: -40UP from Gibco
            High quality sequence stop: 473.
FEATURES             Location/Qualifiers
     source          1. .560
                     /organism="Xenopus laevis"
                     /db_xref="taxon:8355"
                     /clone="IMAGE:4783917"
                     /clone_lib="Blackshear/Soares normalized Xenopus egg
                     library"
                     /sex="female"
                     /tissue_type="unfertilized egg"
                     /cell_type="unfertilized egg"
                     /dev_stage="unfertilized egg"
                     /lab_host="DH10B"
                     /note="Vector: pT7T3-Pac; Site_1: EcoRI; Site_2: NotI;
                     PolyA-selected mRNA was prepared from unfertilized Xenopus
                     laevis eggs.  The library was constructed in the vector
                     pT7T3-Pac as described in Bonaldo, M.F., Lennon, G. and
                     Soares, M.B. 'Normalization and subtraction:  two
                     approaches to facilitate gene discovery',  Genome Research
                     6:791-806, 1996.  The first strand synthesis used a
                     NotI-dT18 primer; double stranded cDNAs were ligated to
                     EcoRI adapters, digested with NotI, and directionally
                     cloned into the NotI and EcoRI-digested pT7T3-Pac vector.
                     The library contained approximately 7.2 X 10^5
                     recombinants, with average insert sizes of 1-1.5 kb."
BASE COUNT      164 a    112 c    120 g    164 t
ORIGIN
```

```
  Query Match           45.3%;  Score 176.6;  DB 10;  Length 560;
  Best Local Similarity  73.0%;  Pred. No. 1.1e-34;
```